# Memorandum

To : Kean S. Goh Date : August 21, 1996

Agricultural Program Supervisor IV Environmental Monitoring and Pest Management Branch 1020 N Street, Room 161

Sacramento, California 95814-5624

From : Department of Pesticide Regulation - 1020 N Street, Room 161
Sacramento, California 95814-5624

Subject: SUMMARY OF RESULTS FOR FY 1995-96 GROUND WATER PROTECTION LIST MONITORING

### BACKGROUND

In 1992, a group of 45 pesticide active ingredients (ai's) on the Ground Water Protection List [Title 3, California Code of Regulations, Section 6800 (b)] were prioritized for monitoring as previously described (1) and four of the ai's were monitored in seven counties (2). Those ai's were among 24 ai's in the first priority group of ai's requiring that 25-40 wells be sampled (1). As a continuation of that effort, six of the 20 ai's remaining in the first priority group were monitored during FY 1992-93 (3), five ai's were monitored in FY 1993-94 (4), and three were monitored in FY 1994-95 (5). This memorandum summarizes information on monitoring locations and analytical results for each of four ai's monitored during FY 1995-96.

## **METHODS**

The ai's monitored were carbofuran, metalaxyl, oxydemeton-methyl, and propyzamide. Carbofuran was not listed in the ai's on the Ground Water Protection List in the 1992 memorandum (1). However, carbofuran had previously been found in ground water and was to be added to the list as part of a regulation package that was under consideration at the time the

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monitoring was conducted. Subsequently, the regulation package was not enacted. Six wells each had been previously sampled for metalaxyl and oxydemeton-methyl during the 1991 study conducted to test the procedures for determining the Ground Water Protection List (6) (Table 1). Since 25-40 wells must be sampled for each ai according to the Ground Water Protection List monitoring protocol, additional wells remained to be sampled for each of these ai's.

Areas surveyed for potential well sampling locations were selected based on pesticide use reports for either 1992 or 1993. Sampling crews drove through preselected sections of land in each county with the goal of sampling one well per section. At each well site, six water samples were collected for the appropriate ai, consisting of one primary, one field blank, and four backup samples. The minimum detection limit (MDL) was 0.1 part per billion (ppb) for carbofuran, metalaxyl and oxydemeton-methyl and 0.05 ppb for propyzamide. Water samples from each well were also subjected to analytical screens which included nine herbicides: atrazine, bromacil, diuron, prometon, prometryn and simazine each with an MDL of 0.05 ppb and cyanazine, hexazinone, and metribuzin each with an MDL of 0.2 ppb.

#### RESULTS

A total of 115 wells were sampled in 20 counties (Table 1). Thirty-five wells were sampled for carbofuran, 27 for metalaxyl, 28 for oxydemeton-methyl, and 25 for propyzamide. None of the wells contained residues of those ai's. Atrazine was verified in one well in Butte County; simazine was verified in one well in Kern County and two wells in Sutter County; bromacil was verified in one well each in Kern, Monterey, and San Joaquin Counties. There was one unverified detection of diuron each in Monterey County and Kern County, and an unverified detection of simazine in Sutter County.

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Based on the data presented in Table 1, all required Ground Water Protection List well monitoring has been completed for carbofuran, metalaxyl, oxydemeton-methyl, and propyzamide. None of those ai's was detected in well water. No additional monitoring will be conducted unless a report of ground water contamination by one of those ai's are received.

#### REFERENCES CITED

- Weaver, Don. March 9, 1992. Memorandum to John Sanders: Prioritization of chemicals on the ground water protection list.
- 2. Weaver, Don and Joe Marade. July 15, 1992. Memorandum to Kean Goh: Summary of results for FY 1991-92 ground water protection list monitoring.
- 3. Weaver, Donald J. and Joe Marade. August 23, 1993. Memorandum to John S. Sanders: Summary of results for FY 1992-93 ground water protection list monitoring.
- 4. Weaver, Don J. and Joe Marade. August 19, 1994.

  Memorandum to Kean S. Goh: Summary of results for FY 1993-94 ground water protection list monitoring.
- 5. Weaver, Donald J. and Joe Marade. June 30, 1995.
  Memorandum to Kean S. Goh: Summary of results for 1994-95
  ground water protection list monitoring.
- 6. Johnson, B. R. et al. 1992. A test of procedures for determining the ground water protection list. EHAP Report EH 92-06.

If you have any comments or questions, please feel free to call us.

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#### Attachment

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 John Troiano, Ph. D. (Attachment)

Table 1. Wells sampled for four Ground Water Protection List active ingredients during FY 1995-96.

|                      |            | Number of wells sampled for: |                       |             |  |  |  |  |  |
|----------------------|------------|------------------------------|-----------------------|-------------|--|--|--|--|--|
| County               | Carbofuran | Metalaxyl                    | Oxydemeton-<br>methyl | Propyzamide |  |  |  |  |  |
| Butte                | 5          |                              |                       |             |  |  |  |  |  |
| Colusa               | 4          |                              |                       |             |  |  |  |  |  |
| Fresno               |            |                              | 1                     | 3           |  |  |  |  |  |
| Glenn                | 1          |                              |                       |             |  |  |  |  |  |
| Kern                 | 2          | 5                            | 2                     | 1           |  |  |  |  |  |
| Merced               |            | 3                            |                       |             |  |  |  |  |  |
| Monterey             | 4          | 4                            | 10                    | 4           |  |  |  |  |  |
| Sacramento           | 3          |                              |                       | 3           |  |  |  |  |  |
| San Benito           |            |                              | 2                     | 2           |  |  |  |  |  |
| San Joaquin          | 6          | 3                            |                       | 1           |  |  |  |  |  |
| San Luis Obispo      |            |                              | 1                     | 2           |  |  |  |  |  |
| San Mateo            |            |                              | 1                     |             |  |  |  |  |  |
| Santa Barbara        |            | 2                            | 4                     | 3           |  |  |  |  |  |
| Santa Clara          |            |                              | 1                     |             |  |  |  |  |  |
| Santa Cruz           |            |                              | 2                     | 3           |  |  |  |  |  |
| Sutter               | 5          | 4                            |                       |             |  |  |  |  |  |
| Tulare               | 3          |                              | 2                     |             |  |  |  |  |  |
| Ventura              |            | 3                            | 2                     | 3           |  |  |  |  |  |
| Yolo                 | 1          | 3                            |                       |             |  |  |  |  |  |
| Yuba                 | 1          |                              |                       |             |  |  |  |  |  |
| FY 1995-96<br>Totals | 35         | 27                           | 28                    | 25          |  |  |  |  |  |
| Sampled 1990-91      | 0          | 6                            | 6                     | 0           |  |  |  |  |  |
| Cumulative<br>Total  | 35         | 33                           | 34                    | 25          |  |  |  |  |  |

select coname, substr(chname,1,19) chemical, count (unique well) wells, sy
from widata, county, wichem
where chem in ('00106','02132', '00382','00694')
and widata.co=county.conum
and widata.chem=wichem.chnum
and agency='4323'
group by coname, substr(chname,1,19), sy
order by coname, substr(chname,1,19), sy

| CONAME         | CHEMICAL          | WELLS | SY |
|----------------|-------------------|-------|----|
| Butte          | CARBOFURAN        |       | 96 |
|                | CARBOFURAN        |       | 96 |
|                | CARBOFURAN        |       | 85 |
| Fresno         | CARBOFURAN        | 44    |    |
| Fresno         | METALAXYL         |       | 91 |
| Fresno         | OXYDEMETON-METHYL | -     | 96 |
| Fresno         | PROPYZAMIDE       |       | 96 |
| Glenn          | CARBOFURAN        | 33    |    |
| Glenn          | CARBOFURAN        |       | 96 |
| Kern           | CARBOFURAN        | 32    |    |
| Kern           | CARBOFURAN        |       | 96 |
| Kern           | METALAXYL         |       | 96 |
| Kern           | OXYDEMETON-METHYL | _     | 96 |
| Kern           | PROPYZAMIDE       | _     | 96 |
| Kings          | CARBOFURAN        | 12    |    |
| Lake           | CARBOFURAN        |       | 86 |
| Madera         | CARBOFURAN        | 10    |    |
| Merced         | CARBOFURAN        | 19    |    |
| Merced         | METALAXYL         |       | 96 |
|                | CARBOFURAN        | 22    |    |
| -              | CARBOFURAN        |       | 96 |
| -              | METALAXYL         |       | 91 |
| Monterey       | METALAXYL         |       | 96 |
| Monterey       | OXYDEMETON-METHYL | 10    | 96 |
| Monterey       | PROPYZAMIDE       | 4     | 96 |
| Riverside      | CARBOFURAN        | 10    | 85 |
| Sacramento     | CARBOFURAN        | 3     | 96 |
| Sacramento     | PROPYZAMIDE       | 3     | 96 |
| San Benito     | OXYDEMETON-METHYL | 2     | 96 |
| San Benito     | PROPYZAMIDE       | 2     | 96 |
| San Bernardino | CARBOFURAN        | 12    | 85 |
| San Joaquin    | CARBOFURAN        | 21    | 85 |
| San Joaquin    | CARBOFURAN        | 7     | 92 |
| San Joaquin    | CARBOFURAN        | 6     | 96 |
| San Joaquin    | METALAXYL         | 2     | 91 |
| San Joaquin    | METALAXYL         | 3     | 96 |
| San Joaquin    | OXYDEMETON-METHYL | 3     | 91 |
| San Joaquin    | PROPYZAMIDE       | 1     | 96 |
|                |                   |       |    |

| CONAME          | CHEMICAL          | WELLS | SY |
|-----------------|-------------------|-------|----|
|                 |                   |       |    |
| San Luis Obispo |                   | _     | 85 |
| San Luis Obispo |                   | -     | 96 |
| San Luis Obispo | PROPYZAMIDE       | _     | 96 |
| San Mateo       | OXYDEMETON-METHYL | _     | 96 |
| Santa Barbara   | CARBOFURAN        | 6     | 85 |
| Santa Barbara   | METALAXYL         | 2     | 96 |
| Santa Barbara   | OXYDEMETON-METHYL | 4     | 96 |
| Santa Barbara   | PROPYZAMIDE       | 3     | 96 |
| Santa Clara     | OXYDEMETON-METHYL | 1     | 96 |
| Santa Cruz      | CARBOFURAN        | 7     | 85 |
| Santa Cruz      | OXYDEMETON-METHYL | 2     | 96 |
| Santa Cruz      | PROPYZAMIDE       | 3     | 96 |
| Stanislaus      | CARBOFURAN        | 13    | 85 |
| Sutter          | CARBOFURAN        | 5     | 96 |
| Sutter          | METALAXYL         | 4     | 96 |
| Tulare          | CARBOFURAN        | 25    | 85 |
| Tulare          | CARBOFURAN        | 3     | 95 |
| Tulare          | CARBOFURAN        | 3     | 96 |
| Tulare          | OXYDEMETON-METHYL | 3     | 91 |
| Tulare          | OXYDEMETON-METHYL | 2     | 96 |
| Ventura         | METALAXYL         | 3     | 96 |
| Ventura         | OXYDEMETON-METHYL | 2     | 96 |
| Ventura         | PROPYZAMIDE       | 3     | 96 |
| Yolo            | CARBOFURAN        | 1     | 96 |
| Yolo            | METALAXYL         | 3     | 96 |
| Yuba            | CARBOFURAN        | 1.    | 96 |
|                 |                   |       |    |

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Table 1. 1995 -1996 Ground Water Protection List Well Monitoring Results For Carbofuran In Butte, Colusa, Glenn, Kern, Monterey, Sacramento, San Joaquin, Sutter, Tulare, Yolo, and Yuba Counties during June and August 1995.

|            | I                  |       |                 | _            | Concentration | ı (ppb) <sup>b</sup> |          |          |
|------------|--------------------|-------|-----------------|--------------|---------------|----------------------|----------|----------|
| County     | T/R-S <sup>a</sup> | Loc   | Carbofuran      | Atrazine     | Simazine      | Diuron               | Prometon | Bromacil |
| Butte      | 20N02E08           | C0401 | ND <sup>c</sup> | 0.08<br>0.05 | ND<br>ND      | ND<br>ND             | ND<br>ND | ND<br>ND |
| Butte      | 20N01E22           | C0402 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Butte      | 19N02E24           | C0403 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Butte      | 19N03E06           | C0404 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Butte      | 20N02E25           | C0405 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Colusa     | 15N03W21           | C0601 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Colusa     | 17N03W34           | C0602 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Colusa     | 17N03W07           | C0603 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Colusa     | 15N02W07           | C0604 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Glenn      | 20N02W14           | C1101 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Kern       | 31S/30E-21         | C1501 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Kern       | 25S/26E-34         | C1502 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Monterey   | 19S/07E-05         | C2701 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Monterey   | 17S/06E-26         | C2702 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Monterey   | 16S/05E-16         | C2703 | ND              | ND           | ND            | ND .                 | ND       | ND       |
| Monterey   | 14S/02E-13         | C2704 | ND              | ND<br>ND     | ND<br>ND      | 0.05<br>ND           | ND<br>ND | ND<br>ND |
| Sacramento | 10N04E32           | C3401 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Sacramento | 07N06E23           | C3402 | ND              | ND           | ND            | ND                   | ND       | ND       |
| Sacramento | 07N07E09           | C3403 | ND              | ND           | ND            | ND                   | ND       | ND       |

Table 1. 1995 -1996 Ground Water Protection List Well Monitoring Results For Carbofuran In Butte, Colusa, Glenn, Kern, Monterey, Sacramento, San Joaquin, Sutter, Tulare, Yolo, and Yuba Counties during June and August 1995.

|             |                    | <u> </u> |            |          | Concentration | ı (ppb) <sup>b</sup> |          |               |
|-------------|--------------------|----------|------------|----------|---------------|----------------------|----------|---------------|
| County      | T/R-S <sup>a</sup> | Loc      | Carbofuran | Atrazine | Simazine      | Diuron               | Prometon | Bromacil      |
| San Joaquin | 04N08E24           | C3901    | ND         | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin | 04N08E24           | C3902    | ND         | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin | 03N07E20           | C3903    | ND         | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin | 03N06E19           | C3904    | ND         | ND<br>ND | ND<br>ND      | ND<br>ND             | ND<br>ND | 0.06<br>0.078 |
| San Joaquin | 01S08E08           | C3905    | ND         | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin | 02N09E19           | C3906    | ND         | ND       | ND            | ND                   | ND       | ND            |
| Sutter      | 17N02E34           | C5101    | ND .       | ND       | ND            | ND                   | ND       | ND            |
| Sutter      | 16N02E24           | C5102    | ND         | ND<br>ND | 0.08<br>0.059 | ND<br>ND             | ND<br>ND | ND<br>ND      |
| Sutter      | 15N02E36           | C5103    | ND         | ND<br>ND | 0.12<br>0.086 | ND<br>ND             | ND<br>ND | ND<br>ND      |
| Sutter      | 12N04E10           | C5104    | ND         | ND       | ND            | ND                   | ND       | ND            |
| Sutter      | 13N04E34           | C5105    | ND         | ND<br>ND | 0.06<br>ND    | ND<br>ND             | ND<br>ND | ND<br>ND      |
| Tulare      | 23S/26E-12         | C5401    | ND         | ND       | ND            | ND                   | ND       | ND            |
| Tulare      | 24S/27E-21         | C5402    | ND         | ND       | ND            | ND                   | ND       | ND            |
| Tulare      | 24S/26E-03         | C5403    | ND         | ND       | ND            | ND                   | ND       | ND            |
| Yolo        | 09N01W02           | C5701    | ND         | ND       | ND            | ND                   | ND       | ND            |
| Yuba        | 16N04E22           | C5801    | ND         | ND       | ND            | ND                   | ND       | ND            |

a. T/R-S = Township / Range - Section.

b. ppb = parts per billion.

c. None detected at the minimum detection limit of 0.1 ppb for carbofuran and 0.05 ppb for all other chemicals.

Table 2. 1995 -1996 Ground Water Protection List Well Monitoring Results For Metalaxyl In Kern, Merced, Monterey, San Joaquin, Santa Barbara, Sutter, Ventura, and Yolo Counties during September 1995.

|               |                    |          |           |          | Concentration | ı (ppb) <sup>b</sup> |          |               |
|---------------|--------------------|----------|-----------|----------|---------------|----------------------|----------|---------------|
| County        | T/R-S <sup>a</sup> | Location | Metalaxyl | Atrazine | Simazine      | Diuron               | Prometon | Bromacil      |
| Kern          | 27S25E19           | M1501    | NDc       | ND       | ND            | ND                   | ND       | ND            |
| Kern          | 27S25E33           | M1502    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Kern          | 30S29E29           | M1503    | ND        | ND<br>ND | 0.10<br>0.10  | ND<br>0.05           | ND<br>ND | 0.614<br>0.46 |
| Kern          | 30S29E26           | M1504    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Kern          | 28S25E03           | M1505    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Merced        | 09S11E13           | M2401    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Merced        | 06S11E02           | M2402    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Merced        | 05S11E35           | M2403    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Monterey      | 20S08E06           | M2701    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Monterey      | 15S04E28           | M2702    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Monterey      | 14S03E11           | M2703    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Monterey      | 15S03E07           | M2704    | ND        | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin   | 01S07E08           | M3901    | ND        | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin   | 03S07E03           | M3902    | ND        | ND       | ND            | ND                   | ND       | ND            |
| San Joaquin   | 01S08E06           | M3903    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Santa Barbara | 10N26W23           | M4201    | ND        | ND       | ND            | ND                   | ND       | ND            |
| Santa Barbara | 10N25W30           | M4202    | ND        | ND       | ND            | ND                   | ND       | ND            |

Table 2 continued. 1995 -1996 Ground Water Protection List Well Monitoring Results For Metalaxyl In Kern, Merced, Monterey, San Joaquin, Santa Barbara, Sutter, Ventura, and Yolo Counties during September 1995.

|         |          | ļ        |           |          | Concentration | n (ppb) <sup>b</sup> |          |          |
|---------|----------|----------|-----------|----------|---------------|----------------------|----------|----------|
| County  | T/R-Sa   | Location | Metalaxyl | Atrazine | Simazine      | Diuron               | Prometon | Bromacil |
| Sutter  | 12N02E23 | M5101    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Sutter  | 12N02E10 | M5102    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Sutter  | 14N01E08 | M5103    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Sutter  | 13N02E08 | M5104    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Ventura | 01N21W03 | M5601    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Ventura | 01N21W22 | M5602    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Ventura | 02N20W08 | M5603    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Yolo    | 11N02E24 | M5701    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Yolo    | 10N01E25 | M5702    | ND        | ND       | ND            | ND                   | ND       | ND       |
| Yolo    | 10N02E04 | M5703    | ND        | ND       | ND            | ND                   | ND       | ND       |

a. T/R-S = Township / Range - Section.

b. ppb = parts per billion.

c. None detected at the minimum detection limit of 0.1 ppb for metalaxyl and 0.05 ppb for all other chemicals.

Table 3. 1995-1996 Ground Water Protection List Well Monitoring Results For Oxydemeton-Methyl In Fresno, Kern, Monterey, San Benito, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Tulare, and Ventura Counties during April 1996. All wells were tested for oxydemeton-methyl, atrazine, simazine, diuron, prometon, and bromacil.

|                 |                    |       | Concentration (ppb) <sup>b</sup> |          |          |        |          |               |  |  |
|-----------------|--------------------|-------|----------------------------------|----------|----------|--------|----------|---------------|--|--|
| County          | T/R-S <sup>a</sup> | Loc   | Oxydemeton-<br>methyl            | Atrazine | Simazine | Diuron | Prometon | Bromacil      |  |  |
| Fresno          | 15S17E-23          | 10-01 | NDc                              | ND       | ND       | ND     | ND       | ND            |  |  |
| Kern            | 11N/22W-09         | 15-01 | ND <sup>c</sup>                  | ND       | ND       | ND     | ND       | ND            |  |  |
| Kern            | 29S/23E-25         | 15-02 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 20S/08E-05         | 27-01 | NDc                              | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 19S/06E-01         | 27-02 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 18S/06E-01         | 27-03 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 16S/05E-19         | 27-04 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 17S/05E-36         | 27-05 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 15S/03E-35         | 27-06 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 15S/04E-07         | 27-07 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 14S/03E-10         | 27-08 | ND                               | ND       | ND       | ND     | ND       | 0.08<br>0.088 |  |  |
| Monterey        | 12S/02E-31         | 27-09 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Monterey        | 14S/02E-26         | 27-10 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| San Benito      | 12S/05E-23         | 35-01 | ND <sup>c</sup>                  | ND       | ND       | ND     | ND       | ND            |  |  |
| San Benito      | 13S/04E-02         | 35-02 | ND ·                             | ND       | ND       | ND     | ND       | ND            |  |  |
| San Luis Obispo | 10N/35W-04         | 40-01 | ND <sup>c</sup>                  | ND       | ND       | ND     | ND       | ND            |  |  |
| San Mateo       | 08S/05W-09         | 41-01 | ND°                              | ND       | ND       | ND     | ND       | ND            |  |  |
| Santa Barbara   | 10N/34W-21         | 42-01 | ND <sup>c</sup>                  | ND       | ND       | ND     | ND       | ND            |  |  |
| Santa Barbara   | 10N/35W-10         | 42-02 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Santa Barbara   | 10N/35W-16         | 42-03 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |
| Santa Barbara   | 10N/33W-30         | 42-04 | ND                               | ND       | ND       | ND     | ND       | ND            |  |  |

Table 3. 1995-1996 Ground Water Protection List Well Monitoring Results For Oxydemeton-Methyl In Fresno, Kern, Monterey, San Benito, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Tulare, and Ventura Counties during April 1996. All wells were tested for oxydemeton-methyl, atrazine, simazine, diuron, prometon, and bromacil.

|             |                    |       |                       | -        | Concentration | ı (ppb) <sup>b</sup> |          |          |
|-------------|--------------------|-------|-----------------------|----------|---------------|----------------------|----------|----------|
| County      | T/R-S <sup>a</sup> | Loc   | Oxydemeton-<br>methyl | Atrazine | Simazine      | Diuron               | Prometon | Bromacil |
| Santa Clara | 11S/04E-21         | 43-01 | ND° .                 | ND       | ND            | ND                   | ND       | ND       |
| Santa Cruz  | 12S/01E-11         | 44-01 | NDc                   | ND       | ND            | ND                   | ND       | ND       |
| Santa Cruz  | 11S/02E-35         | 44-02 | ND                    | ND       | ND            | ND                   | ND       | ND       |
| Tulare      | 23S/24E-09         | 54-01 | NDc                   | ND       | ND            | ND                   | ND       | ND       |
| Tulare      | 21S/26E-22         | 54-02 | ND                    | ND       | ND            | ND                   | ND       | ND       |
| Ventura     | 02N/22W-30         | 56-01 | NDc                   | ND       | ND            | ND                   | ND       | ND       |
| Ventura     | 01N/21W-08         | 56-02 | ND                    | ND       | ND            | ND                   | ND       | ND       |

a. T/R-S = Township / Range - Section.

b. ppb = parts per billion.

c. None detected at the minimum detection limit of 0.1 ppb for oxydemeton-methyl and 0.05 ppb for all other chemicals.

Table 4. 1995-1996 Ground Water Protection List Well Monitoring Results For Propyzamide In Fresno, Kern, Monterey, Sacramento, San Benito, San Joaquin, San Luis Obispo, Santa Barbara, Santa Cruz, and Ventura Counties During October and November 1995. All wells were tested for propyzamide, atrazine, simazine, diuron, prometon, and bromacil.

|                 | <u> </u>           | <u> </u> |                 | (        | Concentration | n (ppb)b |          |          |
|-----------------|--------------------|----------|-----------------|----------|---------------|----------|----------|----------|
| County          | T/R-S <sup>a</sup> | Location | Propyzamide     | Atrazine | Simazine      | Diuron   | Prometon | Bromacil |
| Fresno          | 21S16E02           | P01      | ND <sup>c</sup> | ND       | ND            | ND       | ND       | ND       |
| Fresno          | 21S17E06           | P02      | ND              | ND       | ND            | ND       | ND       | ND       |
| Fresno          | 20S18E32           | P03      | ND              | ND       | ND            | ND       | ND       | ND       |
| Kern            | 31S28E24           | P01      | ND              | ND       | ND            | ND       | ND       | ND       |
| Monterey        | 18S06E06           | P01      | ND              | ND       | ND            | ND       | ND       | ND       |
| Monterey        | 14S03E31           | P02      | ND              | ND       | ND            | ND       | ND       | ND       |
| Monterey        | 15S03E03           | P03      | ND              | ND       | ND            | ND       | ND       | ND       |
| Monterey        | 14S03E09           | P04      | ND              | ND       | ND            | ND       | ND       | ND       |
| Sacramento      | 06N/07E02          | P01      | ND              | ND       | ND            | ND       | ND       | ND       |
| Sacramento      | 06N/07E18          | P02      | ND              | ND       | ND            | ND       | ND       | ND       |
| Sacramento      | 05N/07E03          | P03      | ND              | ND       | ND            | ND       | ND       | ND       |
| San Benito      | 12S04E33           | P01      | ND              | ND       | ND            | ND       | ND       | ND       |
| San Benito      | 12S04E36           | P02      | ND              | ND       | ND            | ND       | ND       | ND       |
| San Joaquin     | 02S06E04           | P01      | ND              | ND       | ND            | ND       | ND       | ND       |
| San Luis Obispo | 11N35W25           | P01      | ND              | ND       | ND            | ND       | ND       | ND       |
| San Luis Obispo | 32S13E28           | P02      | ND              | ND       | ND            | ND       | ND       | ND       |

Table 4 continued. 1995-1996 Ground Water Protection List Well Monitoring Results For Propyzamide In Fresno, Kern, Monterey, Sacramento, San Benito, San Joaquin, San Luis Obispo, Santa Barbara, Santa Cruz, and Ventura Counties During October and November 1995. All wells were tested for propyzamide, atrazine, simazine, diuron, prometon, and bromacil.

|               |                    |          |             | (        | Concentration | n (ppb) <sup>b</sup> |          |          |
|---------------|--------------------|----------|-------------|----------|---------------|----------------------|----------|----------|
| County        | T/R-S <sup>a</sup> | Location | Propyzamide | Atrazine | Simazine      | Diuron               | Prometon | Bromacil |
| Santa Barbara | 10N34W07           | P01      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Santa Barbara | 07N35W26           | P02      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Santa Barbara | 10N35W09           | P03      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Santa Cruz    | 11S02E28           | P01      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Santa Cruz    | 12S02E02           | P02      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Santa Cruz    | 12S02E08           | P03      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Ventura       | 02N20W09           | P01      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Ventura       | 02N21W34           | P02      | ND          | ND       | ND            | ND                   | ND       | ND       |
| Ventura       | 01N21W21           | P03      | ND          | ND       | ND            | ND                   | ND       | ND       |

a. T/R-S = Township / Range - Section.

b. ppb = parts per billion.

c. None detected at the minimum detection limit of 0.05 ppb for all chemicals.